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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,938	12/16/2005	Eckhard Grass	536-009.23	9200
4955 7590 08/20/2007 WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP			EXAMINER	
			ВАЕ, Л Н	
	GREEN, BUILDING 5 REET, P O BOX 224		ART UNIT	PAPER NUMBER
MONROE, CT	•		2115	
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	•		MAIL DATE	DELIVERY MODE
			08/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Commons	10/542,938	GRASS ET AL.			
Office Action Summary	Examiner	Art Unit			
TI MANUNO DATE (III	Ji H. Bae	2115			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 20 July This action is FINAL. Since this application is in condition for allower closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7-20-2005, 9-9-2005.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites the step of "waiting for the reception of a next request signal from the outside and possibly repeating the preceding step". Applicant's usage of "possibly" does not properly limit the scope of the claims. It is unclear under what conditions the step will be repeated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al., U.S. Patent No. 6,513,128, in view of Nakano, U.S. Patent No. 6,850,754.

Regarding claim 1, Wang teaches a circuit comprising:

an input unit [Fig. 1, clock control 108] which is adapted to receive a request signal [Fig. 1, configReq] from outside and to indicate the reception of the request signal by the delivery of an acknowledgement signal [Fig. 1, configDone], and

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a clock unit adapted to repeatedly produce a first clock signal and deliver it to an internally synchronous circuit block [ASIC clock, col. 1, lines 58-62],

characterized in that the input unit is adapted to produce, if a request signal is applied, a second clock signal [PCI clock] which is in a defined time relationship with the request signal and to deliver it to the internally synchronous circuit block, and there is a unit adapted to suppress delivery of the first clock signal to the favor of the second clock signal [switching from ASIC to PCI clock, col. 5, lines 28-45].

Wang does not teach that the clock unit is able to be paused.

Nakano teaches a system wherein a clock selection circuit selects between two clocks. The unselected clock signal is stopped [col. 5, lines 28-38].

It would have been obvious to one of ordinary skill in the art to combine the teachings of Wang and Nakano by halting ASIC clock of Wang when the system is selecting the PCI clock, in the manner taught by Nakano. Both Wang and Nakano teach systems wherein a selection circuit chooses between two clock circuits, where the system of Nakano provides the added feature of halting the unselected clock. It is well-known to those of ordinary skill in the art that halting a clock signal provides the beneficial results of lower power consumption and heat dissipation. Therefore, it would have been obvious to one of ordinary skill in the art to modify the system of Wang based on Nakano's teaching so as to obtain the predictable result of lowered power consumption and heat dissipation.

Regarding claim 11, Wang and Nakano teaches the circuit of claim 1, and also the method implemented by the claimed circuit.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Kessels et al., U.S. Patent Application Publication No. 2005/0141257 A1;

Shikata et al., U.S. Patent No. 7,093,152 B2;

Alia et al., U.S. Patent No. 6,986,074 B2;

Oyama, U.S. Patent No. 6,295,300 B1;

Chelcea et al., U.S. Patent No. 6,850,092 B2.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ji H. Bae whose telephone number is 571-272-7181. The examiner can normally be reached on Monday-Friday, 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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